

Score _____ /5 Points

Name: _____

Turned In: _____

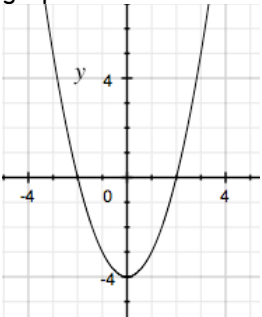
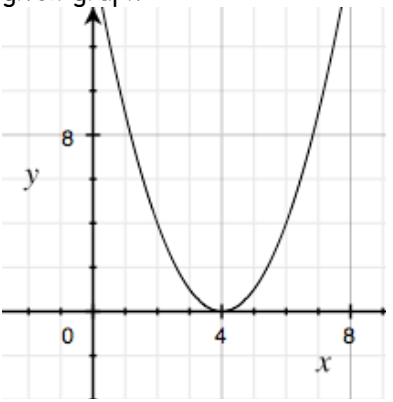
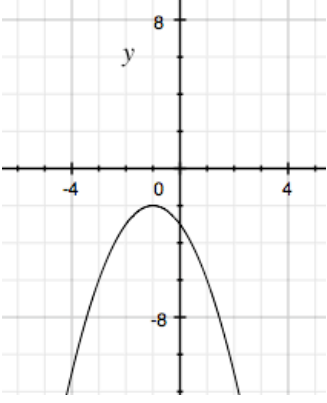
Block: _____ Date: _____

Advanced Algebra Homework Packet #2

Due: Friday, January 18th, @ 5pm

For full credit, homework must be complete by deadline. Homework can be made-up for **half credit within 2 weeks** of deadline. After 2 weeks, no credit will be given for assignment. Homework assignments will be given 0 credit unless the reflection is completed!

1. Show your work NEATLY on a separate sheet of lined paper- work down NOT ACROSS.
2. Box your answers on your paper.
3. Put your answers in the "solution" column of this paper.

Problem	Solution	Problem	Solution
1. Sketch the graph without the use of an in-and-out table. $f(x) = x^2 - 3$	See attached.	9. Find the equation of the given graph. 	Vertex: (_____, _____)
2. Sketch the graph without the use of an in-and-out table. $f(x) = (x - 2)^2$	See attached.		Equation: $f(x) =$
3. Sketch the graph without the use of an in-and-out table. $f(x) = -x^2 + 1$	See attached.		
4. Sketch the graph without the use of an in-and-out table. $f(x) = 3x^2$	See attached.	10. Find the equation of the given graph. 	Vertex: (_____, _____)
5. Describe what the following parabola will look like. Which direction does it face? Where's the vertex? Is it fatter or skinnier than x^2 ? $f(x) = 2(x + 4)^2 - 8$	UP/Down ____ Units Left/Right ____ Units Vertex: _____ Fat Skinny Normal		Equation: $f(x) =$
6. Describe what the following parabola will look like. Which direction does it face? Where's the vertex? Is it fatter or skinnier than x^2 ? $y = (x - 10)^2 + 13$	UP/Down ____ Units Left/Right ____ Units Vertex: _____ Fat Skinny Normal Upside Down		
7. Describe what the following parabola will look like. Which direction does it face? Where's the vertex? Is it fatter or skinnier than x^2 ? $y = -(x - 3)^2 + 6$	UP/Down ____ Units Left/Right ____ Units Vertex: _____ Fat Skinny Normal Upside Down	11. Find the equation of the given graph. 	Vertex: (_____, _____)
8. Describe what the following parabola will look like. Which direction does it face? Where's the vertex? Is it fatter or skinnier than x^2 ? $y = \frac{1}{3}(x + 7)^2 - 8$	UP/Down ____ Units Left/Right ____ Units Vertex: _____ Fat Skinny Normal Upside Down		Equation: $f(x) =$

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Problem	Solution	Problem	Solution
12. Write the equation of a parabola that has a vertex at (2,4).		16. Write in standard form: $f(x) = (x + 4)(x - 3)$	See attached.
13. Write the equation of a parabola that has a vertex at (4,-3).		17. Write in standard form: $f(x) = (x + 5)(2x + 1)$	See attached.
14. Write the equation of a parabola that has a vertex at (-2,1) and is stretched vertically (skinny).		18. Write in standard form: $f(x) = (x + 3)^2$	See attached.
15. Write the equation of a parabola that has a vertex at (-1,5) and is upside down.		19. Write in standard form: $f(x) = (x - 1)^2 + 4$	See attached.

HOMEWORK REFLECTION: To get credit for this assignment, you must write at least a 1-paragraph reflection. You do not need to answer all of these questions; they can be used as a guideline to help you write.

- Which topic made the most sense this week?
- Which topic was the most difficult this week?
- What could you do as a student to improve if you're having difficulty?
- If this is a review for you, were you able to help any other students in class this week?
- How much time did you spend on this assignment?
- How was your attendance, class participation, behavior, etc?